

Amendments to the Claims:

Please cancel claims 2-27, 30 and 32 without prejudice or disclaimer.

The following listing of the claims replaces and supersedes all previous listings.

1. (Currently Amended) An electronically reconfigurable battery, comprising:
a first plurality of battery modules;

a plurality of switches selectively interconnecting said plurality of battery modules, wherein a selectable number of said plurality of battery modules may be connected either in a series configuration or in a parallel configuration, as a result of placing selected switches of said plurality of switches in open states or closed states;
and

an output switch connecting a first output terminal of said battery to a first load;
and

a series current limiting device, network or system inserted in circuit with the partially or sequential erected battery so as to limit DC current;

wherein said charge current limiting device comprises a single stage converter (SSC) battery module voltage level.

wherein a bypass switch issued to connect the input to the output of the SSC circuit to directly connect the dynamic store portion of the battery with the static portion of the battery.

2-27 (cancelled)

28. (Currently Amended) An electronically reconfigurable battery ~~as described in claim 24~~, comprising:

a first plurality of battery modules;

a plurality of switches selectively interconnecting said plurality of battery modules, wherein a selectable number of said plurality of battery modules may be connected either in a series configuration or in a parallel configuration, as a result of placing selected switches of said plurality of switches in open states or closed states;

an output switch connecting a first output terminal of said battery to a first load;

and

a series current limiting device, network or system inserted in circuit with the partially or sequential erected battery so as to limit DC current;

wherein said charge current limiting device comprises a single stage converter (SSC) battery module voltage level.

wherein the SSC is an electronic DC-DC converter whose input circuit is connected to the static portion of the battery and whose output is connected to the first stage of the dynamic section of the battery.

29. (Currently Amended) An electronically reconfigurable battery as ~~described in claim 24, comprising:~~

a first plurality of battery modules;

a plurality of switches selectively interconnecting said plurality of battery modules, wherein a selectable number of said plurality of battery modules may be connected either in a series configuration or in a parallel configuration, as a result of placing selected switches of said plurality of switches in open states or closed states;

an output switch connecting a first output terminal of said battery to a first load;

and

a series current limiting device, network or system inserted in circuit with the partially or sequential erected battery so as to limit DC current;

wherein said charge current limiting device comprises a single stage converter (SSC) battery module voltage level,

wherein the SSC is an electronic DC-DC converter whose input circuit is connected to a suitable DC source other than the static portion of the battery and the output is connected to the first stage of the dynamic section of the battery.

30. (Cancelled)

31. (Currently Amended) An electronically reconfigurable battery as described in claim 24, comprising:

a first plurality of battery modules;

a plurality of switches selectively interconnecting said plurality of battery modules, wherein a selectable number of said plurality of battery modules may be connected either in a series configuration or in a parallel configuration, as a result of placing selected switches of said plurality of switches in open states or closed states;

an output switch connecting a first output terminal of said battery to a first load;

and

a series current limiting device, network or system inserted in circuit with the partially or sequential erected battery so as to limit DC current;

wherein said charge current limiting device comprises a single stage converter (SSC) battery module voltage level,

wherein the SSC is an electronic AC-DC converter whose input circuit is connected to a suitable AC source and whose output is connected to the first stage of the dynamic section of the battery.

32. (Cancelled)